

[54] APPARATUS FOR PREPARING AND DISPENSING THERMOPLASTIC RESIN

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[57] ABSTRACT

Apparatus for preparing and dispensing thermoplastic resin has a conveyor or extruder with a chamber provided with heating elements, a conveyor or extruder screw mounted in the chamber and connected to a drive motor, a resin inlet and a resin outlet. To ensure the intended continuous dispensing of the resin even during intermittent operation, a control device is provided having inputs connected to a resin pressure sensor, a conveyor speed of rotation sensor and a resin temperature sensor. Intended values for the conveyor speed, resin pressure and resin temperature are supplied to the control device, which regulates the pressure during interruption of the dispensing of the resin and effects a speed regulation or a pressure regulation with a superimposed speed regulation during dispensing of the resin. For plasticizing of the resin, which is supplied in solid, preferably granular form, and since the conveyor geometry by the heating elements is required. The temperature at the outlet is monitored by the temperature sensor and regulated by the control device.

6 Claims, 4 Drawing Figures

